WASHINGTON STATE FERRIES

NEW 144 - AUTO FERRIES DESIGN - BUILD CONTRACT

VOLUME IV

TECHNICAL SPECIFICATION

TABLE OF CONTENTS

HULL PERFORMANCE 14 ARRANGEMENT 16 NAVAL ARCHITECTURE 16 STRUCTURAL HULL 2 HOUSE AND INTERIOR BULKHEADS 3 DOORS AND OTHER ACCESS CLOSURES 4 HULL FITTINGS 5 DECK COVERINGS 6 INSULATION AND SHEETMETAL LININGS 7 MASTS AND POINTERS 8 RIGGING 9 GROUND TACKLE 10 HULL PIPING SYSTEMS 11	MARAD TITLE	SECTION
ARRANGEMENT 11 NAVAL ARCHITECTURE 16 STRUCTURAL HULL 2 HOUSE AND INTERIOR BULKHEADS 3 DOORS AND OTHER ACCESS CLOSURES 4 HULL FITTINGS 5 DECK COVERINGS 6 INSULATION AND SHEETMETAL LININGS 7 MASTS AND POINTERS 8 RIGGING 9 GROUND TACKLE 16 HULL PIPING SYSTEMS 11	GENERAL REQUIREMENT	1
NAVAL ARCHITECTURE 10 STRUCTURAL HULL 2 HOUSE AND INTERIOR BULKHEADS 3 DOORS AND OTHER ACCESS CLOSURES 4 HULL FITTINGS 5 DECK COVERINGS 6 INSULATION AND SHEETMETAL LININGS 7 MASTS AND POINTERS 8 RIGGING 9 GROUND TACKLE 10 HULL PIPING SYSTEMS 11	HULL PERFORMANCE	1A
STRUCTURAL HULL 2 HOUSE AND INTERIOR BULKHEADS 3 DOORS AND OTHER ACCESS CLOSURES 4 HULL FITTINGS 5 DECK COVERINGS 6 INSULATION AND SHEETMETAL LININGS 7 MASTS AND POINTERS 8 RIGGING 9 GROUND TACKLE 10 HULL PIPING SYSTEMS 11	ARRANGEMENT	1B
HOUSE AND INTERIOR BULKHEADS	NAVAL ARCHITECTURE	1C
DOORS AND OTHER ACCESS CLOSURES 4 HULL FITTINGS 5 DECK COVERINGS 6 INSULATION AND SHEETMETAL LININGS 7 MASTS AND POINTERS 8 RIGGING 9 GROUND TACKLE 10 HULL PIPING SYSTEMS 11	STRUCTURAL HULL	2
HULL FITTINGS	HOUSE AND INTERIOR BULKHEADS	3
DECK COVERINGS	DOORS AND OTHER ACCESS CLOSURES	4
INSULATION AND SHEETMETAL LININGS	HULL FITTINGS	5
MASTS AND POINTERS	DECK COVERINGS	6
RIGGING	INSULATION AND SHEETMETAL LININGS	7
GROUND TACKLE	MASTS AND POINTERS	8
HULL PIPING SYSTEMS	RIGGING	9
	GROUND TACKLE	10
HEATING, VENTILATION AND AIR CONDITIONING	HULL PIPING SYSTEMS	11
	HEATING, VENTILATION AND AIR CONDITIONING	12

[®]Washington State Ferries Volume IV: Technical Specification

MARAD TITLE	SECTION
FIRE DETECTION AND EXTINGUISHING SYSTEMS	13
SURFACE PREPARATION AND PAINTING	14
PAINT SCHEDULE	TABLE 14-1
NAVIGATION EQUIPMENT	15
LIFESAVING	16
FOOD SERVICES	17
UTILITY SPACES	18
FURNITURE & FURNISHINGS	19
PLUMBING FIXTURES AND ACCESSORIES	20
HARDWARE	21
WEATHER COVERS	22
PASSENGER ELEVATORS	23
NAMEPLATES, NOTICES AND MARKINGS	24
JOINER WORK AND INTERIOR DECORATION	25
MAIN AND AUXILIARY MACHINERY	50
MAIN DIESEL ENGINES	51
REDUCTION GEARS AND CLUTCHES	52
SHAFTING, BEARINGS AND PROPELLERS	53
FUEL OIL STORAGE, FILL, TRANSFER AND PURIFICATION SYSTEM	56
LUBE OIL STORAGE, FILL AND TRANSFER SYSTEM	57
SEAWATER SYSTEMS	58
FRESH WATER SYSTEMS	59

MARAD TITLE	<u>SECTION</u>
HOT WATER HEATING SYSTEM DISTRIBUTION	60
HOT WATER HEATING PLANT	61
EXHAUST AND UPTAKE SYSTEMS	63
MACHINERY SPACE VENTILATION	64
AIR CONDITIONING REFRIGERATION EQUIPMENT	65
SEWAGE HOLDING AND TRANSFER SYSTEM POLLUTION ABATEMENT	70
TANK LEVEL INDICATORS	71
COMPRESSED AIR SYSTEMS	72
PUMPS	73
GENERAL REQUIREMENTS FOR HULL AND MACHINERY PIPING SYSTEMS	74
MATERIAL SCHEDULE	TABLE 74-4
INSULATION AND LAGGING FOR PIPING, EQUIPMENT AND MACHINERY	75
TANKS	78
LADDERS, GRATINGS, FLOORPLATES, PLATFORMS & WALKWAYS IN MACHINERY AND MISCELLANEOUS SPACES	79
ENGINEER'S WORKSHOP, RESTROOM, STORES AND REPAIR EQUIPMENT	80
HULL MACHINERY	81
INSTRUMENTS AND MISCELLANEOUS GAGE BOARDS	85
SPARES AND SPECIAL TOOLS	86
ELECTRICAL SYSTEMS GENERAL REQUIREMENTS	87

MARAD TITLE	SECTION
SHIP'S SERVICE GENERATOR SETS	88
SWITCHBOARDS	89
ELECTRICAL DISTRIBUTION	90
MOTORS, CONTROLLERS AND CONTROL EQUIPMENT	91
LIGHTING SYSTEMS	92
RADIO AND COMMUNICATION EQUIPMENT	93
ELECTRONIC NAVIGATION EQUIPMENT	94
INTERIOR COMMUNICATIONS	95
STORAGE BATTERIES	96
PROPULSION CONTROL, AND ALARM AND MONITORING SYSTEMS	99
TECHNICAL DOCUMENTATION	100
TESTS AND TRIALS	101
NOISE AND VIBRATION	102